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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,917	07/03/2001	Siu-Leong Iu	067339-0033	3640
	7590		067339-0033 3640 EXAMINER WINTER, JOHN M ART UNIT PAPER NUMBE 3685	IINER
600 13TH STR	EET, N.W.		WINTER, JOHN M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	09/763,917	IU ET AL.	
Office Action Summary	Examiner	Art Unit	
	JOHN M. WINTER	3685	
The MAILING DATE of this commun Period for Reply	ication appears on the cover sheet v	vith the correspondence address	S
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE M - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comr - If NO period for reply is specified above, the maximum sf - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF THIS COMMUN s of 37 CFR 1.136(a). In no event, however, may a munication. catutory period will apply and will expire SIX (6) MC will, by statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this commun BANDONED (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) file This action is FINAL. Since this application is in condition closed in accordance with the praction 	2b)⊠ This action is non-final. for allowance except for formal ma	·	its is
Disposition of Claims			
4) Claim(s) 19-30 and 62-77 is/are per 4a) Of the above claim(s) is/a 5) Claim(s) is/are allowed. 6) Claim(s) 19-30 and 62-77 is/are rejection of the complex of the comple	re withdrawn from consideration.		
9)☐ The specification is objected to by th	e Examiner.		
10) The drawing(s) filed on is/are Applicant may not request that any obje Replacement drawing sheet(s) including 11) The oath or declaration is objected to	: a) ☐ accepted or b) ☐ objected to ection to the drawing(s) be held in abeya g the correction is required if the drawin	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.1	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies	documents have been received. documents have been received in a of the priority documents have bee onal Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stag	e
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (Figure 1) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	PTO-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 	

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DETAILED ACTION

Acknowledgements

 The Applicants amendment filed on December 20, 2007 is acknowledged. Claims 19-30 and 62-77 remain pending.

Response to Arguments

2. Applicant's arguments with respect to the pending claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 19-30 and 62-77 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention,

Claim 19 recites the limitation "not readily visible by the viewer" does not quantify an amount of "warping" and is therefore indefinite.

Claims 20-30 and 62-77 are either dependant upon claim 19 or contain similar limitations and are rejected for at lest the same reasons.

Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- Claims 19-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rhoads,
 (US Patent No 6,363,159) in view of Saito (US Patent 6,182,218) and further in view of Chaum (US Patent 5,959,717.
- 5. As per claims 19-30,

Rhoads ('159) discloses a playback unit, comprising:

an input for receiving an encoded data stream bearing a video image;

(Figures 2 and 3 -- Examiner notes that that the manner in which a claimed apparatus is intended to be used does not distinguish the claimed apparatus from the prior art- if the prior art has the capability to so perform (MPEP 2114 and *Ex parte Masham*, 2 USPQ2d 1647 (197))).

means for imparting a prescribed transformation to the video image (Column 28, lines 24-54, column 64, lines 15-30) for warping the video image in a manner, and by an amount, not readily visible to a viewer (Column 26; lines 1-28, Examiner notes that Rhoads states that the "break" in the signal is not noticable using a high end sound system)

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Rhoads ('159) does not explicitly disclose "a decoder for decoding the encoded data stream;". Saito ('218) discloses "a decoder for decoding the encoded data stream; ,"(Figure 1, column 8, lines 15-18-- Examiner notes that that the manner in which a claimed apparatus is intended to be used does not distinguish the claimed apparatus from the prior art- if the prior art has the capability to so perform (MPEP 2114 and *Ex parte Masham*, 2 USPQ2d 1647 (1987))). It would be obvious to one of ordinary skill in the art at the time of the invention to combine the Rhoads ('159)'s method with Saito's teaching in order to enforce digital rights management systems.

Rhoads ('159) does not explicitly disclose such that a composite video image produced by multiple video playback units will be distorted and the distortion of the composite video image can be seen by the viewer, wherein said warping changes with time during playback of the video image ". Chaum ('717) discloses "such that a composite video image produced by multiple video playback units will be distorted and the distortion of the composite video image can be seen by the viewer, (Column 8, lines 57-67 – column 9 lines 1-9) wherein said warping changes with time during playback of the video image " (Column 6, lines 43-63). It would be obvious to one of ordinary skill in the art at the time of the invention to combine the Rhoads ('159)'s in view of Saito's teachings with Chaum ('717) teaching in order to enforce digital rights management systems.

As per claims 20-30

The Examiner states that Chaum discloses the claimed feature of wherein said warping changes with time during playback of the video image "(Column 6, lines 43-63). The

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substitution of another old and well known warping process such as "warping is selected randomly from among a plurality of mapping functions pre- stored in a playback unit; or the image is warped by compressing spacing between pixels in one direction and expanding spacing in another direction; or said warping changes upon scene change of said video image or warping is defined by a geometric transformation; or warping is derived by backward warping of a two-dimensional geometric transformation of said video image; or warping is performed by a three-dimensional transformation of said video image; or wherein said warping is described by a linear function or warping is described by a quadratic function or warping is described by a spline function; or applying a motion vector to pixels of said video image for image transformation or performing different image transformations in different regions of said video image" as disclosed in claims 21-30 is no more than the simple substitution of one known element for another or the mere application of a known technique to a piece of prior art ready for improvement. Ex parte Smith, 83 USPQ2d 1509 (Bd. Pat. App. & Int.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 62-77 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rhoads, (US Patent No 6,363,159) in view of Chaum (US Patent 5,959,717.

7. As per claim 62,

Rhoads ('159) discloses a method for processing an audio or video data stream containing digital watermark data, comprising:

utilizing a playback unit for playing out information contained in the audio or video data stream; (Column 28, line 55 – column 29, line 7)

during playing by the playback unit, altering the audio or video information by applying to the audio or video data stream a predetermined mapping function associated with the playback unit to distort the audio or video, (Column 28, lines 24-54)

Rhoads ('159) does not explicitly disclose "wherein audio or video information produced by combining multiple audio or video data streams corresponding to said information, from different playback units, is distorted and the distortion of the produced audio information can be heard by a listener of the produced audio information or the distortion of the produced video information can be seen by a viewer of the produced video information, said video information comprises a video image embedded in a video data stream, and said video image is distorted during playback by a playback unit in accord with the predetermined mapping function by an amount not readily visible to the viewer, but such that a video image produced by combining multiple video data streams reproduced by multiple different playback units is distorted and the distortion can be seen by the viewer". Chaum ('717) discloses "wherein audio or video information produced

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by combining multiple audio or video data streams corresponding to said information, from different playback units, is distorted and the distortion of the produced audio information can be heard by a listener of the produced audio information or the distortion of the produced video information can be seen by a viewer of the produced video information, said video information comprises a video image embedded in a video data stream, and said video image is distorted during playback by a playback unit in accord with the predetermined mapping function by an amount not readily visible to the viewer, but such that a video image produced by combining multiple video data streams reproduced by multiple different playback units is distorted and the distortion can be seen by the viewer, (Column 8, lines 57-67 – column 9 lines 1-9) wherein said warping changes with time during playback of the video image" (Column 6, lines 43-63). It would be obvious to one of ordinary skill in the art at the time of the invention to combine the Rhoads ('159)'s with Chaum ('717) teaching in order to enforce digital rights management systems.

Examiner notes that the claimed feature of "wherein audio or video information produced by combining multiple audio or video data streams corresponding to said information, from different playback units, is distorted and the distortion of the produced audio information can be heard by a listener of the produced audio information or the distortion of the produced video information can be seen by a viewer of the produced video information, said video information comprises a video image embedded in a video data stream, and said video image is distorted during playback by a playback unit in accord with the predetermined mapping function by an amount not readily visible to the

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viewer, but such that a video image produced by combining multiple video data streams reproduced by multiple different playback units is distorted and the distortion can be seen by the viewer, wherein said warping changes with time during playback of the video image" merely states the result of the limitations in the claim adds nothing to the patentability or substance of the claim. (Texas Instruments Inc. v. International Trade Commission 26, USPQ2d 1010 (Fed. Cir. 1993); Griffin v. Bertina, 62 USPQ2d 1431 (Fed. Cir. 2002); Amazon.com Inc. v. Barnesandnoble.com Inc., 57 USPQ2d 1747 (CAFC 2001)

The Examiner further notes that optional or conditional elements do not narrow the claims because they can always be omitted. See e.g. MPEP §2106 II C: "Language that suggest or makes optional but does not require steps to be performed or does not limit a claim to a particular structure does not limit the scope of a claim or claim limitation. [Emphasis in original.] "As a matter of linguistic precision, optional elements do not narrow the claim because they can always be omitted.

As per claim 63,

Rhoads ('159) discloses the method in accordance with claim 62

Rhoads ('159) does not explicitly disclose "wherein said mapping function changes with time during playback of the video image by a playback unit". Chaum ('717) discloses "wherein said mapping function changes with time during playback of the video image by a playback unit (Column 8, lines 57-67 – column 9 lines 1-9, and Column 6, lines 43-63). It would be obvious to one of ordinary skill in the art at the time of the invention to

combine the Rhoads ('159)'s in view of Saito's teachings with Chaum ('717) teaching in order to enforce digital rights management systems.

As per claims 64-77,

The Examiner states that Chaum discloses the claimed feature of wherein said warping changes with time during playback of the video image" (Column 6, lines 43-63). The substitution of another old and well known warping process such as "The mapping function is selected randomly from among a plurality of mapping functions pre-stored in a playback unit; or the image is distorted by the playback unit by compressing spacing between pixels in one direction and expanding spacing in another direction; or mapping function is changed upon scene change of said video image; or the mapping function is changed in a first manner within a scene, and is changed in a second manner upon a scene change; or mapping function is defined by a geometric transformation; or mapping function is derived by backward warping of a two-dimensional geometric transformation of said video image; or mapping function is derived by a three-dimensional geometric transformation of said video image, or mapping function is linear; or mapping function is quadratic; or mapping function is a spline function; or wherein a motion vector is applied to one or more pixels of said video image for image transformation, or the mapping function is obtained from a stored table, or the mapping function is obtained from a computed table; or wherein different image transformations are performed in different regions of said video image" as disclosed in claims 64-76 are no more than the simple substitutions of one known element for another or the mere application of a known

technique to a piece of prior art ready for improvement. Ex parte Smith, 83 USPQ2d 1509 (Bd. Pat. App. & Int.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN M. WINTER whose telephone number is (571)272-6713. The examiner can normally be reached on M-F 8:30-6, 1st Fridays off. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Calvin Hewitt can be reached on (571) 272-6709. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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JMW

/Calvin L Hewitt II/

Supervisory Patent Examiner, Art Unit 3685